	Application No.	Applicant(s)
Notice of Allowability	10/526 959	DECCONSET AL
	10/536,858 Examiner	RESCONI ET AL.
	8.44	
	Rip A. Lee	1713
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>September 25, 2006</u> .		
2. ☑ The allowed claim(s) is/are <u>1-7 and 9</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No. (Mail Date 06 15 2006	5. ☐ Notice of Informal P. 6. ☐ Interview Summary Paper No./Mail Dat 7. ⊠ Examiner's Amendn	(PTO-413), e
Paper No./Mail Date <u>06-15-2006</u> 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowance
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Application/Control Number: 10/536,858

Art Unit: 1713

Page 2

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Page 2

Claim 1, line 12

delete "or"

Claim 1, line 18

replace "and" with "or"

Page 3

Claim 1, line 9

replace "unsaturaded" with "unsaturated"

Page 5

Claim 7, line 15

delete "or"

Claim 7, line 21

replace "and" with "or"

Page 7

Claim 7, line 1

delete "or"

Claim 7, line 7

replace "and" with "or"

Art Unit: 1713

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1-7 and 9 are allowed over the closest references cited below.

The present invention is drawn to a process for preparing 1-butene polymers in the presence of a catalyst system obtained by contacting at least one metallocene of formula (I) and an aluminoxane or a compound that forms an alkylmetallocene cation. Notably, metallocene of formula I contains a bridged bisindenyl core wherein substituents R⁴ and R⁵ are linked to form a saturated or unsaturated C₃-C₇ membered ring.

Another aspect of the invention is drawn to a metallocene of formula (IIb) and a process for making said metallocene. The metallocene contains a bridged *bis* indacenyl ligand set.

Chen et al. (U.S. 6,084,115) teaches diene complexes containing a Me₂Si-bridged bisindacenyl ligand set or a bis(tetramethylbenzo[f]indenyl) ligand set. Such compounds have been excluded from the amended claims. The patent does not teach or fairly disclose use of the compounds of the instant claims, nor is there suggestion to use compounds specifically in a process for making butene polymers.

McAdon *et al.* (U.S. 5,965,756 and 6,034,022) discloses constrained geometry complexes containing (un)substituted indacenyl and tetramethylbenzo[f]indenyl ligands. Clearly, these compounds do not meet the structural requisites set forth in the instant claims.

Morizono et al. (U.S. 6,143,827) contemplates use of variously substituted Me₂Si-bridged bis(benzo[f]indenyl)zirconium chlorides as catalyst components for production of ethylene-alpha olefin-nonconjugated diene polymers. The subject matter of the instant claims is neither disclosed nor obvious over the teachings of this patent.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/536,858

Art Unit: 1713

Any inquiry concerning this communication or earlier communications from the

Page 4

examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov>. Should you have questions on the access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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December 1, 2006

DAVID W. WILL

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700